Natural Security On Different Platforms

This section covers the following topics:

- Supported Platforms
- Using Natural Security on Multiple Platforms

Supported Platforms

Natural Security is available on the following platforms:

- mainframe computers,
- UNIX,
- Windows.

Natural Security is available as a full version and as a runtime version.

Full Version

Normally, Natural Security is installed as a full version comprising the complete functionality of Natural Security. The full version can be installed on all platforms - except on some Windows platforms (as listed in your Natural Release Notes), where only the runtime version is available.

The full version comprises the entire runtime functionality as well as the full administrative and maintenance functionality. In the application SYSSEC it provides all functions for the online administration and maintenance of Natural Security data, and for the creation and evaluation of access logs, as well as application interfaces for the retrieval and maintenance of Natural Security data.

Runtime Version

On those Windows platforms which are not suited to the stand-alone operation of Natural, Natural Security is installed as a runtime-only version, which only contains the functionality necessary to enable user authentication and access control of Natural resources: it includes the logon procedure, which performs user authentication and verification of access rights when a user logs on to a Natural session, plus the procedures which perform access control to check whether a user has permission to perform the desired functions within a Natural session. In addition, retrieval functions provided by the Natural Security application interfaces are available.

As the runtime version does not include any maintenance capability, it requires access to a Natural Security system file (FSEC) on another platform. Thus, a runtime version can only be used in combination with a full version installed on one of the other platforms.

Using Natural Security on Multiple Platforms

Central FSEC System File

In a heterogeneous, multiple-platform Natural environment, the administration and retrieval of Natural Security data has to be taken into consideration. It is possible to set up a separate Natural Security system file (FSEC) for each installation, and maintain each FSEC system file independently.

It is also possible to set up a single FSEC system file in which all Natural Security data are stored centrally. The Natural Security installations have to be connected in a network with Entire Net-Work. Access to the centrally stored security data is handled by Entire Net-Work by means of remote database calls.

If the multiple-platform configuration does not include a mainframe, the FSEC system file can be located and the Natural Security data maintained on any of the (full version) installations; however, it is recommended that you maintain them on the installation where the FSEC system file is local.

If the multiple-platform configuration includes a mainframe, the FSEC system file must be located and the Natural Security data maintained on the mainframe. On the non-mainframe installations, the maintenance of Natural Security data is then automatically disabled.

The accessibility of an FSEC system file in a multiple-platform configuration is as follows:

Location of FSEC	Accessible from
Mainframe	Mainframe, UNIX and Windows
UNIX	UNIX and Windows
Windows	Windows and UNIX

For details on how to set up Natural Security in a heterogeneous environment, see the Natural Security installation description in your Natural Installation Guide.

Non-Mainframe Libraries in a Heterogeneous Environment

In a heterogeneous production environment using a central mainframe FUSER system file, a library which does not exist on the mainframe FUSER system file but in the file system on another platform would not be known to Natural Security on the mainframe. To be able to define "non-existent" modules contained in such a library, the Disallow/Allow Modules function provides the subfunction "Free List of Modules" (which is described in the section Library Maintenance).

Protection of DDMs

Natural's storage location for DDMs is not the same on all platforms: on mainframe computers, DDMs are stored in an FDIC system file, whereas on UNIX and Windows, DDMs are contained in libraries like other Natural objects. Therefore, Natural Security's handling of the DDM protection is also different:

- On mainframe computers, DDMs are treated as separate objects (called "files"), which have their own security profiles.
- On the non-mainframe platforms, the protection of DDMs is subordinate to the protection of libraries, and DDM security profiles are subordinate to library security profiles.

For further information on, see DDM/Files in the section Structure And Terminology Of Natural Security.

In a heterogeneous environment where a central FSEC system file on a mainframe is used, all DDMs on the non-mainframe platforms must be transferred to the library SYSTEM in order to enable their use under Natural Security.